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WATER SUPPLY OUTLOOK FOR WYOMING

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Alphabetical Serial File



U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

STATE ENGINEER of WYOMING

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

AS OF
MAR. 1, 1977

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SNOW COURSE MEASUREMENTS BY A SURVEY TEAM IN UTAH'S WASATCH RANGE.
ORC-254-10

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, 6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK FOR WYOMING

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

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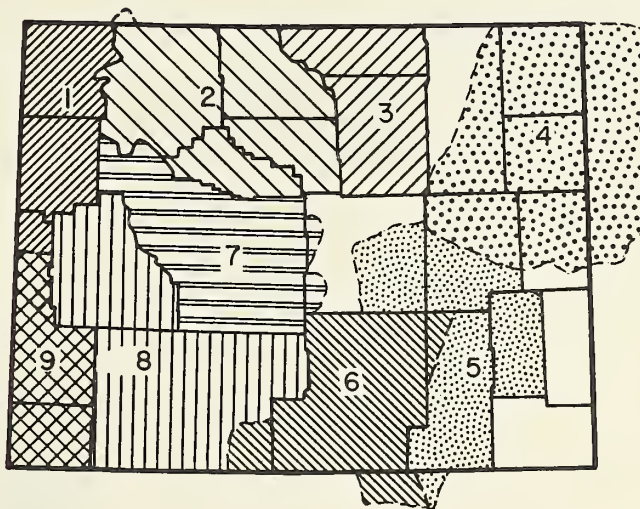
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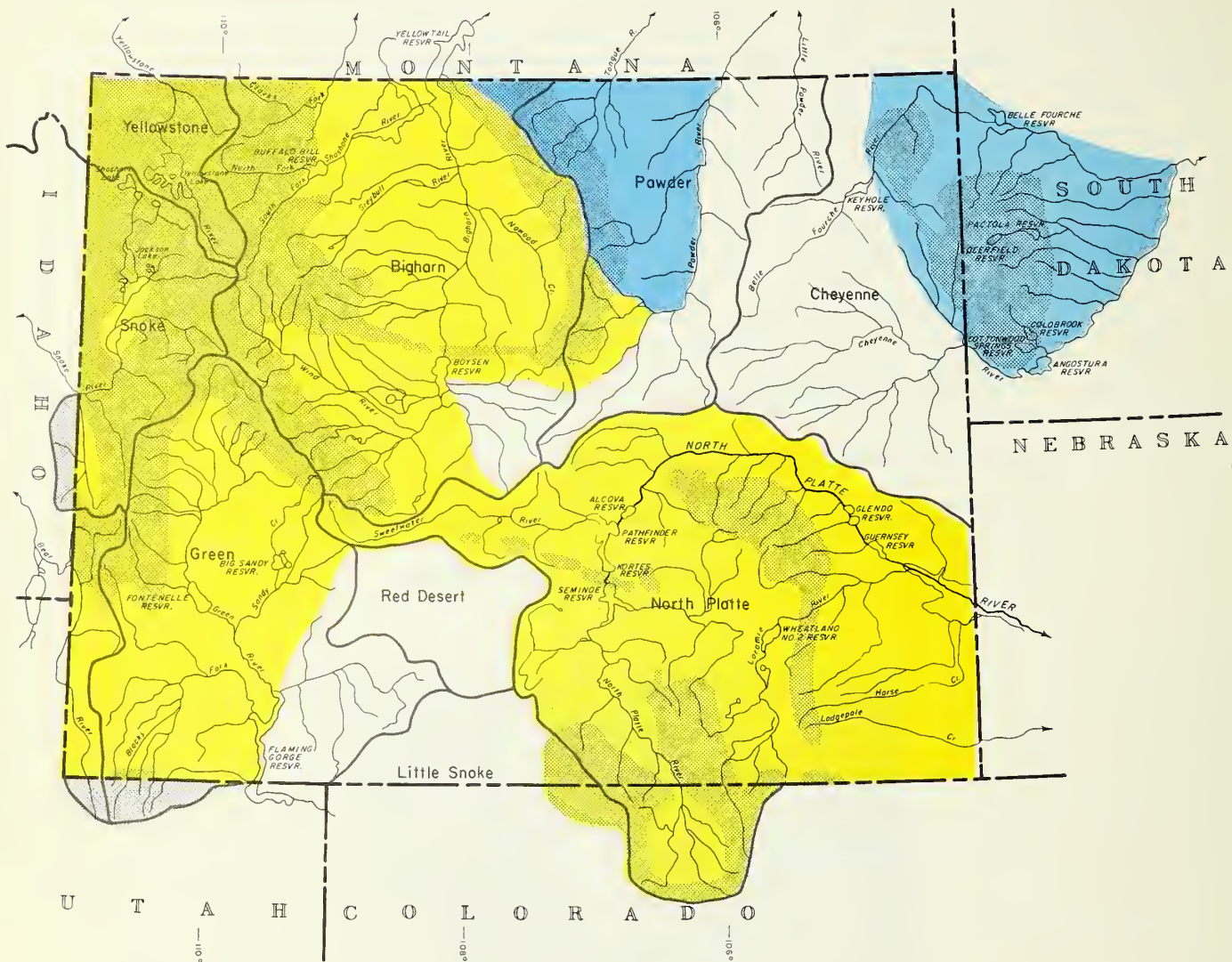


WATERSHED AREA LOCATIONS

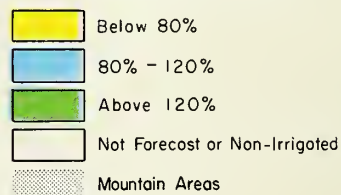
PROSPECTIVE WATER SUPPLIES FOR WYOMING SPRING AND SUMMER PERIOD

MARCH 1, 1977

50 0 50 MILES
SCALE 1 : 4,250,000



FORECAST STREAM FLOW
in Percent of 1958 - 1972 Year Average





Measuring Middle Powder snow course in Bighorn Mountains.

WYOMING SUMMARY as of MARCH 1, 1977

*
* *The Wyoming spring and summer water supply picture remains bleak* *
* *for most water users without adequate reservoir storage. Below* *
* *average precipitation during February provided minimal increases* *
* *in the record low mountain snowpack.* *
*

SNOWPACK

The dry spell continued through much of February causing a reduction in the mountain snowpack throughout the state. Almost all snow courses on the west side of the state indicate the lowest snowpack on record with many at less than half of the previous record lows. The snowpack is 15-30 percent of normal in the Bear and Green River drainages, 30-40 percent in the northwest corner of the state, 35-50 percent of normal in the Bighorn Mountains. The Black Hills showed a slight decrease during the last month, but still remain above normal.

Continued on next page--

PRECIPITATION

February precipitation has been at or below average throughout the state with many areas receiving less than half the normal amount. The seasonal total, October through February, is now 44 percent below average for the state.

SOIL MOISTURE

Warm temperatures during the past month caused some snowmelt which contributed to the soil moisture, but the moisture is still very low.

STREAMFLOW

All streamflow forecasts have been reduced from last month. Many streamflow volumes are expected to be the lowest on record. Forecasts for the southwest corner of the state are only 20 to 40 percent of normal and the rest of the state is generally less than 60 percent of normal. Watersheds in the northern portion of the Bighorn Mountains will be near or slightly below normal and streamflow out of the Black Hills will be above normal.

RESERVOIR STORAGE

Reservoir storage remains above normal throughout most of the state. Twenty-three major reservoirs are currently storing 8,060,000 acre-feet of water. This is 41 percent above the March 1 average.



You may have less Irrigation water this year than ever before.

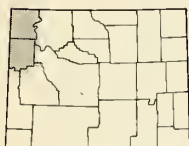
SNOW COURSE MEASUREMENTS MADE ON MARCH 1, 1977 CONTINUE TO INDICATE THAT MANY AREAS WILL HAVE SEVERE TO CRITICAL WATER SHORTAGES. STUDY THE ATTACHED WATER SUPPLY FORECAST CAREFULLY FOR STREAM FLOW AND/OR RESERVOIR STORAGE FIGURES THAT CONCERN YOUR AREA. KEEP IN TOUCH WITH YOUR IRRIGATION DISTRICT OR OTHER OFFICIALS FOR ESTIMATES OF THE SUPPLY AVAILABLE FOR YOU. YOU MAY FIND YOU'LL NEED TO CHANGE CROPS, PLANTED ACREAGE, TIMING OF WATER APPLICATION OR EFFICIENCY OF YOUR WATER DISTRIBUTION SYSTEM. THESE ARE SOME OF THE EARLY DECISIONS AND PLANS YOU MAY HAVE TO MAKE:

1. Change to crops which require less water.
2. Reduce the crop acreage. Naturally, this will affect the fertilizer you order and the amount of seed you buy. Be sure unplanted land has cover crops to prevent wind erosion.
3. Check out your irrigation systems carefully. Make certain that ditches have no water-wasting weeds or debris to slow delivery; that sprinkler heads don't have leaks, pipes have tight connections and pumps work properly. If new parts or equipment are needed, purchase them soon.
4. Plant only the best land - it makes most efficient use of water. If your soil has been mapped, local Soil Conservation Service personnel can guide you. If not mapped, they can still give you general information.
5. Maintain close contact with the Soil Conservation Service or your local Conservation District for the latest water supply forecasts, and for soil information. SCS has just published water conservation TIPS pamphlets for irrigators, farmers and ranchers. Get copies.
6. Maintain close contact with the Agricultural Stabilization and Conservation Service county office. Funds for cost sharing on special water stretching practices may be made available because of the drought situation. ASCS also administers the Federal Disaster Assistance program.
7. Do the same with your closest Farmers Home Administration office. Special loans may become available.
8. Do the same with the local Cooperative Extension Service office for current information on crops, feed supply and marketing.

SCS, ASCS AND FMHA ARE LISTED IN THE PHONE BOOK UNDER "U.S. GOVERNMENT, AGRICULTURE, DEPARTMENT OF." THE EXTENSION SERVICE IS USUALLY LISTED WITH LOCAL COUNTY OFFICES.

WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE SNAKE, MADISON AND UPPER YELLOWSTONE RIVER WATERSHEDS IN WYOMING

MARCH 1, 1977



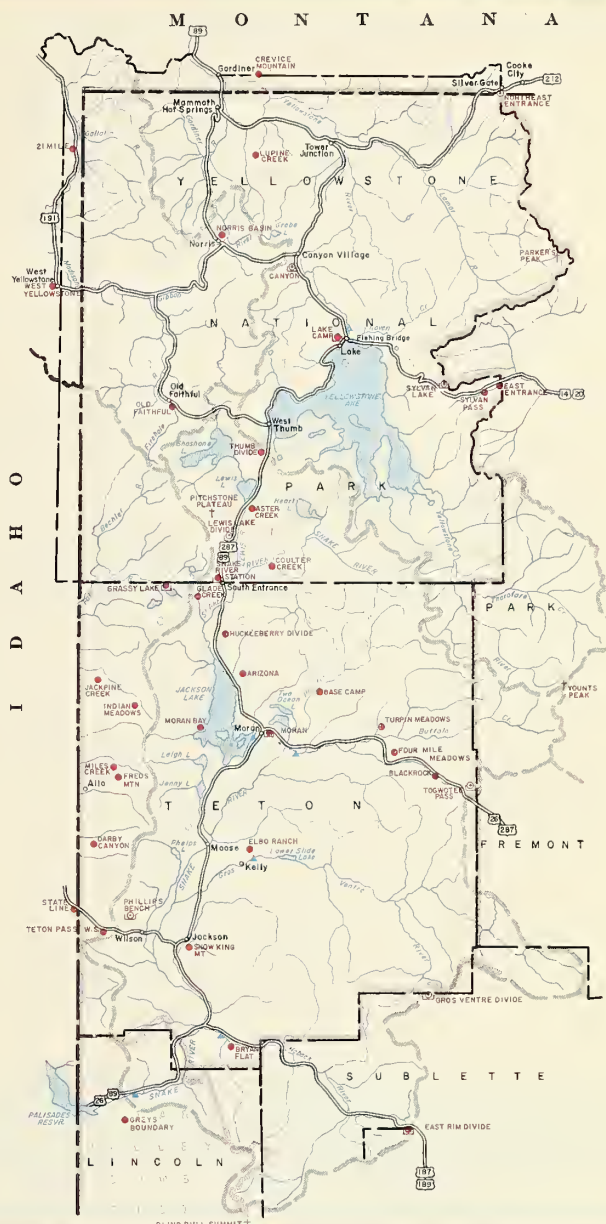
LOCATION MAP



LEGEND

- Snow Course
- ⊙ Snow Sensor
- † Aerial Marker (A)
- ⊥ Storage Precipitation Gage (P)
- ▲ Stream Gaging Station
- Drainage
- Highway
- Conservation District Boundary
- Watershed Boundary

0 10 20 MILES
SCALE 1:500,000



YOUR WATER SUPPLY

MOUNTAIN WATER SUPPLIES ARE EXPECTED TO BE VERY LOW THIS COMING SPRING AND SUMMER. FORECAST STREAMFLOWS RANGE FROM 55% ON THE YELLOWSTONE TO 19% OF NORMAL ON THE SALT RIVER. SNOWPACKS OF 28% TO 44% OF THE AVERAGE MARCH 1 AMOUNTS, PLUS THE DRY FALL CONDITIONS HAVE CAUSED THIS SHORT SUPPLY. RESERVOIR STORAGE IS ABOVE NORMAL, HOWEVER.

SNAKE, MADISON AND UPPER YELLOWSTONE RIVER WATERSHEDS

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year**	Average †
Yellowstone River at Yellowstone Lake Outlet	450	55	Apr-Sept	955	821
Snake River near Moran (1)	420	49	Apr-Sept	1047	858
Snake River above Palisades near Alpine (1)	1200	46	Apr-Sept	3237	2621
Snake River at Heise (2)	1750	44	Apr-Sept	4951	3946
Pacific Creek at Moran	66	39	Apr-Sept	--	169
Greys River above Palisades	78	20	Apr-Sept	477	388
Salt River above Palisades near Etna	70	19	Apr-Sept	516	365
Palisades Reservoir Inflow	1620	44	Apr-Sept	4589	3684
Swift Creek near Afton	- Not forecast -		May-Sept	--	45

(1) Observed flow plus change in storage in Jackson Lake.

(2) Observed flow plus change in storage in Jackson Lake and Palisades Reservoir.

** Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Madison (Wyo.)	4	26	35
Yellowstone (Wyo.)	10	29	39
Snake abv. Jackson Lake	12	22	29
Pacific Creek	3	21	29
Buffalo Creek	6	34	44
Gros Ventre River	3	28	34
Hoback River	6	26	28
Greys River	2	30	32
Salt River	4	28	29

RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Grassy Lake	15.1	10.6	11.0	10.3
Jackson Lake	847.0	597.9	633.2	533.3
Palisades	1200.0	1083.3	904.5	809.0

+ 1958-1972 period.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
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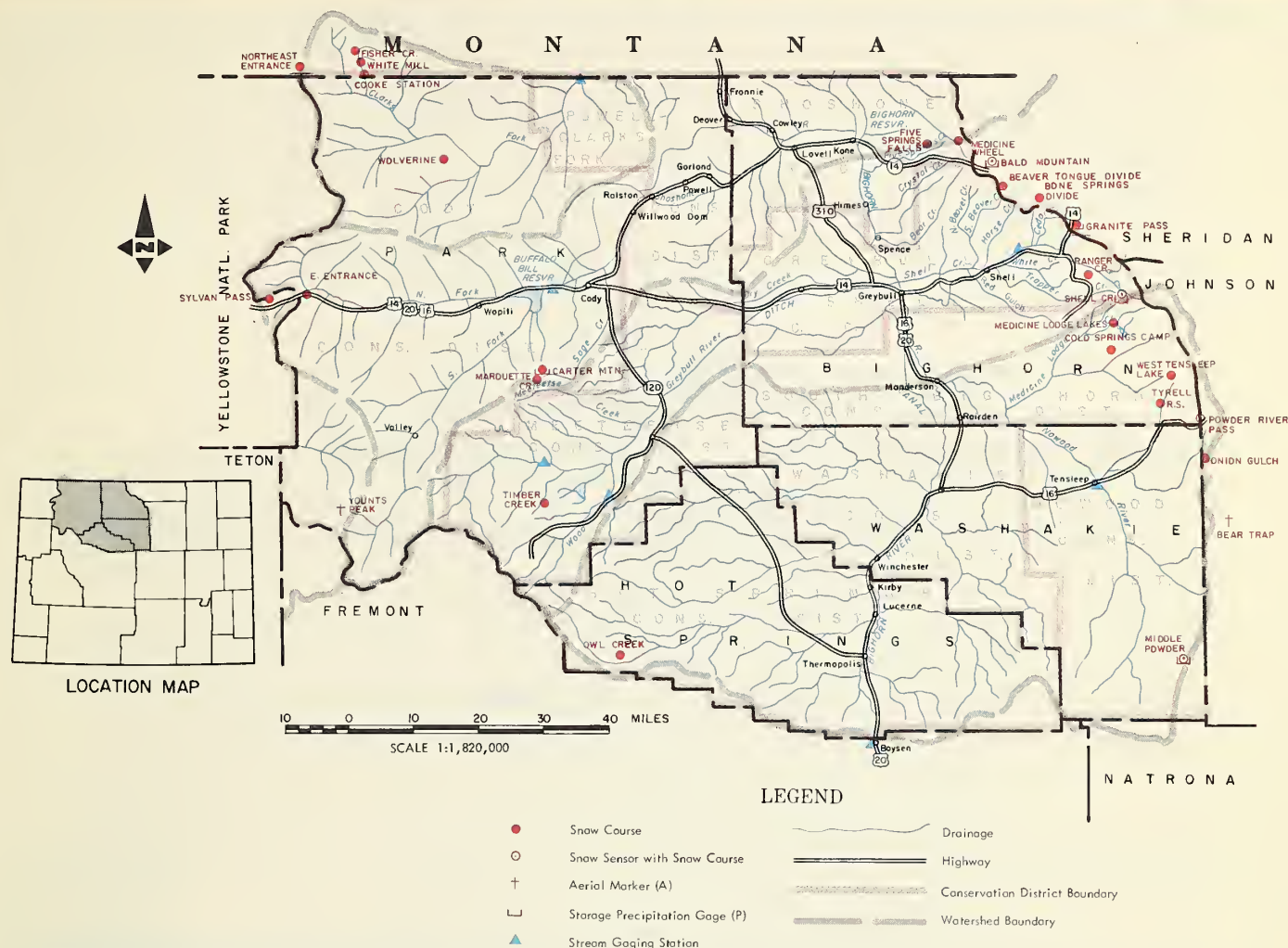


FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE BIGHORN BASIN IN WYOMING as of MARCH 1, 1977

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE



YOUR WATER SUPPLY

MOST SPRING AND SUMMER STREAMFLOWS ARE EXPECTED TO BE 50-60% OF NORMAL. MEDICINE LODGE CREEK IS LOWEST AT 43%, WHILE SHELL CREEK SHOULD FLOW AT 73% OF NORMAL. MOUNTAIN SNOWPACK RANGES FROM 22% (GREYBULL RIVER) TO 82% (SHELL CREEK). ALTHOUGH THE SUMMER SUPPLY IS BELOW NORMAL, RESERVOIR STORAGE IS PRESENTLY ABOVE AVERAGE.

This report prepared by

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BIGHORN BASIN

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year**	Average †
Wind River below Boysen (1)	500	50	Apr-Sept	1100	1006
Tensleep Creek near Tensleep	38	48	Apr-Sept	-	79
Medicine Lodge Creek near Hyattville	9.1	43	Apr-Sept	-	21
Shell Creek near Shell	53	73	Apr-Sept	85	73
Greybull River at Meeteetse	120	57	Apr-Sept	220	209
Shoshone River below Buffalo Bill Dam (2)	460	56	Apr-Sept	1037	827
Clarks Fork near Belfry	370	61	Apr-Sept	-	607

(1) Observed flow plus change in storage in Bull Lake, Pilot Butte and Boysen Reservoirs; plus diversion to Wyoming Canal; minus return flow from Fivemile and Muddy Creeks.

(2) Observed flow plus change in storage in Buffalo Bill Reservoir and diversion to Heart Mountain Canal.

** Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Clarks Fork	5	38	47
Shoshone	5	32	42
Nowood	7	62	68
Shell	5	82	83
Greybull	2	22	27

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Boysen	549.9	295.3	259.0	262.0
Buffalo Bill	373.1	171.3	198.3	150.7
Bighorn	613.7	870.0	835.9	800.8
Upper Sunshine	53.0	42.1	50.8	-
Lower Sunshine	58.9	42.0	18.4	-

† 1958-1972 period.

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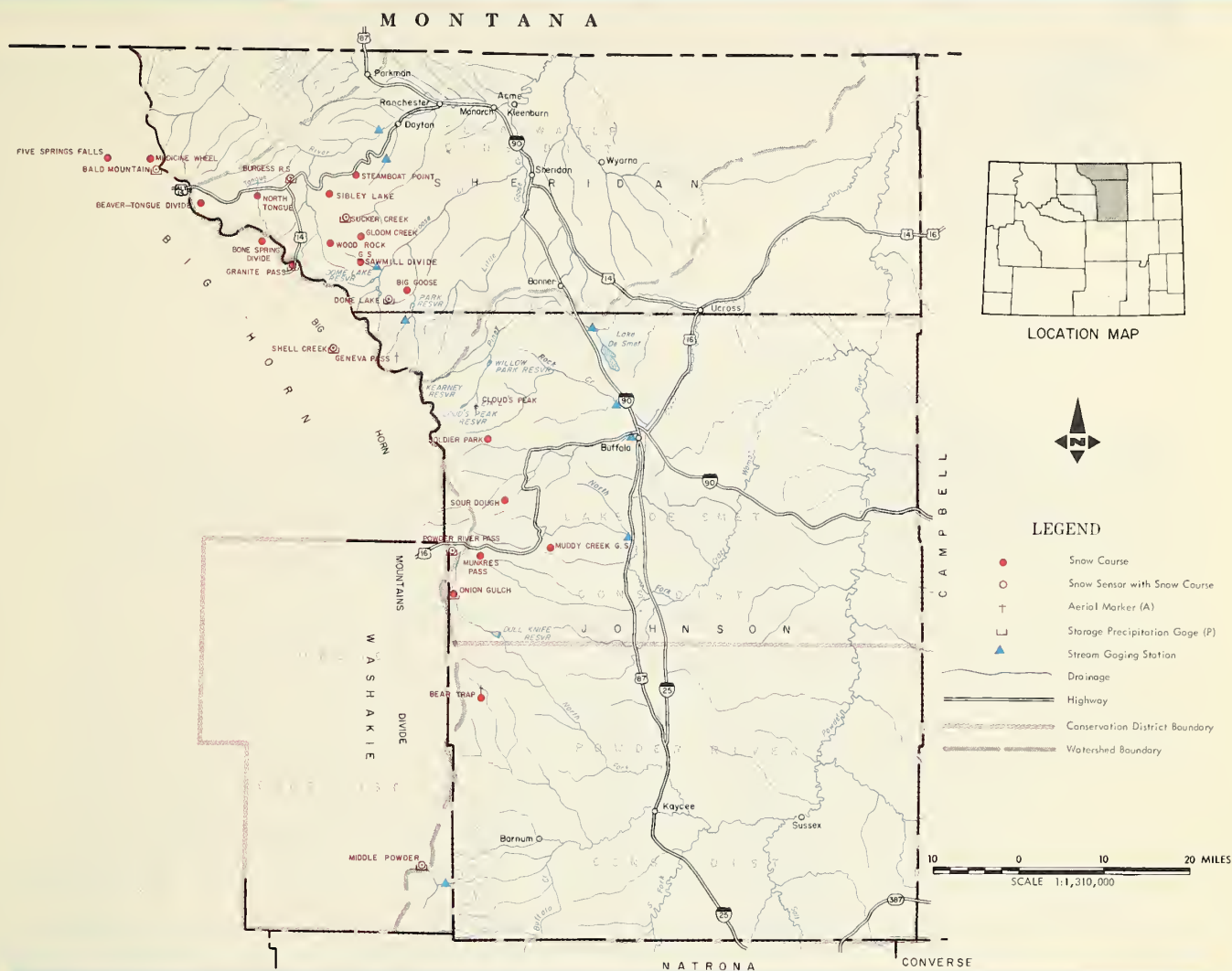
"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK

FOR THE CONSERVATION DISTRICTS IN THE POWDER AND TONGUE WATERSHEDS IN WYOMING

as of MARCH 1, 1977

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE



YOUR WATER SUPPLY

TONGUE RIVER SUMMER STREAMFLOWS WILL BE NORMAL, WHILE THE OTHER DRAINAGES TO THE SOUTH WILL HAVE LESS WITH THE POWDER RIVER FORECAST AT 81% OF NORMAL. SNOWPACK ACCUMULATIONS ARE SIMILARLY DISTRIBUTED RANGING FROM 92% TO 54%. ABOVE NORMAL FALL PRECIPITATION AND EXPECTED NORMAL SPRING PRECIPITATION HAVE CONTRIBUTED TO THE WATER SUPPLY.

This report prepared by

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STREAMFLOW FORECASTS		THIS YEAR		PAST RECORD	
BASIN, STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year **	Average †
Tongue River near Dayton	114	101	Apr-Sept	108	113
Middle Fork Powder River near Barnum	- Not forecast -		Apr-Sept	-	23*
North Fork Powder River near Hazelton	8.1	81	Apr-Sept	11.1	10
Clear Creek near Buffalo			Apr-Sept		36
Rock Creek near Buffalo	- Not forecast -		Apr-Sept		23
Piney Creek at Kearny			Apr-Sept		49

* Less than 15 years of record.

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHEO	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Tongue River	9	90	92
Goose Creek	5	66	68
Clear Creek	4	45	54
Crazy Woman Creek	4	47	55
Powder River	5	66	75

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average

+ 1958-1972 period.

FEDERAL STATE PRIVATE

COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydroelectric power generation, navigation, mining and industry.

WATER IS THE WEST'S GREATEST RESOURCE



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"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE BELLE FOURCHE AND CHEYENNE RIVER WATERSHEDS IN WYOMING AND SOUTH DAKOTA



YOUR WATER SUPPLY

THE BELLE FOURCHE AND CHEYENNE RIVER WATERSHED CONTINUES TO BE THE ONLY AREA IN WYOMING HAVING A POTENTIAL EXCELLENT SUMMER WATER SUPPLY. THE BLACK HILLS SNOWPACK IS 27% ABOVE THE MARCH 1 AVERAGE. RESERVOIR STORAGE REMAINS ABOVE AVERAGE.

BELLE FOURCHE AND CHEYENNE RIVER WATERSHEDS

STREAMFLOW FORECASTS

STREAMFLOW FORECASTS		THIS YEAR		PAST RECORD	
BASIN, STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
No forecasts for this area.					

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Belle Fourche	4	139	127

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Keyhole	190.4	122.4	128.5	75.4
Belle Fourche	185.2	68.9	104.5	100.6
Angostura	86.2	40.6	43.6	55.3
Deerfield	15.1	14.7	15.1	11.1
Pactola	55.0	53.0	48.7	38.7
Shadehill	81.5	60.7	63.1	49.0

† 1958-1972 period.

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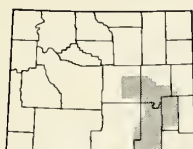
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WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE LOWER NORTH PLATTE RIVER WATERSHED IN WYOMING

as of MARCH 1, 1977

U.S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
WATERSHED AREA 5

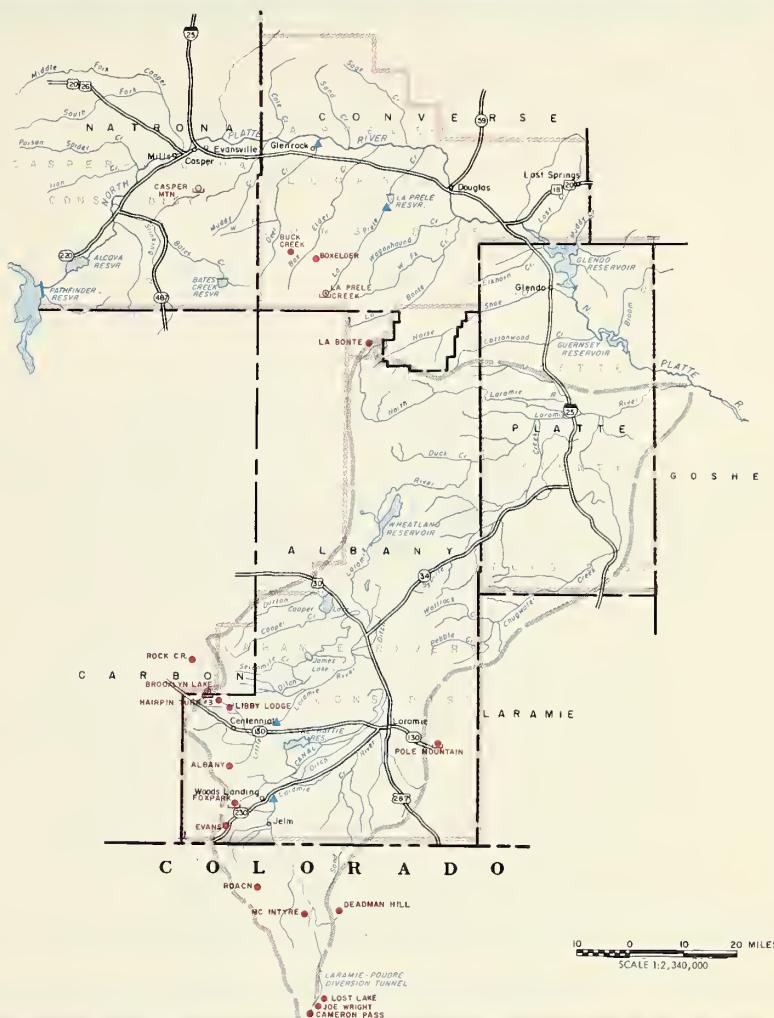


LOCATION MAP



LEGEND

- Snow Course
- Snow Sensor with Snow Course
- Storage Precipitation Gage (P)
- ▲ Stream Gaging Station
- Drainage
- Highway
- Conservation District Boundary
- Watershed Boundary



YOUR WATER SUPPLY

ABOUT 40% OF NORMAL SUMMER STREAMFLOW VOLUMES ARE FORECAST, WHILE DEER CREEK AND LA PRELE CREEK ARE EXPECTED TO BE ABOUT 60%. BASIN SNOWPACK RANGES FROM 78% OF NORMAL IN THE NORTH PLATTE WATERSHED TO 40% ON THE LARAMIE RIVER. ALTHOUGH MOUNTAIN WATER SUPPLIES ARE VERY LOW, RESERVOIR STORAGE IS GOOD. ONLY GUERNSEY RESERVOIR IS BELOW AVERAGE (47%).

This report prepared by

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Issued by

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LOWER NORTH PLATTE RIVER WATERSHED

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year **	Average †
North Platte River near Sinclair	260	40	Apr-Sept	544	648
Deer Creek at Glenrock	17	65	Mar-July	36	26
LaPrele Creek near Douglas (Ab. Reservoir)	11	61	Mar-July	18.2	18
Laramie River & Pioneer Canal near Woods (1)	47	37	Apr-Sept	81	127
Little Laramie River near Filmore	24	39	Apr-Sept	54	62

(1) Observed flow plus transbasin diversions from North Platte River Basin to Cache La Poudre River Basin in Colorado.
 ** Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Laramie River	13	40	40
Lower North Platte	4	64	78

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Seminole	1010.5	487.7	566.1	333.8
Pathfinder	1015.9	747.8	847.4	383.0
Alcova	30.7	2.6	2.1	2.2
Glendo	783.7	375.0	419.8	364.0*
Guernsey	45.2	7.1	6.9	15.1
Wheatland		32.6	54.4	41.5

*Less than 15 years

† 1958-1972 period

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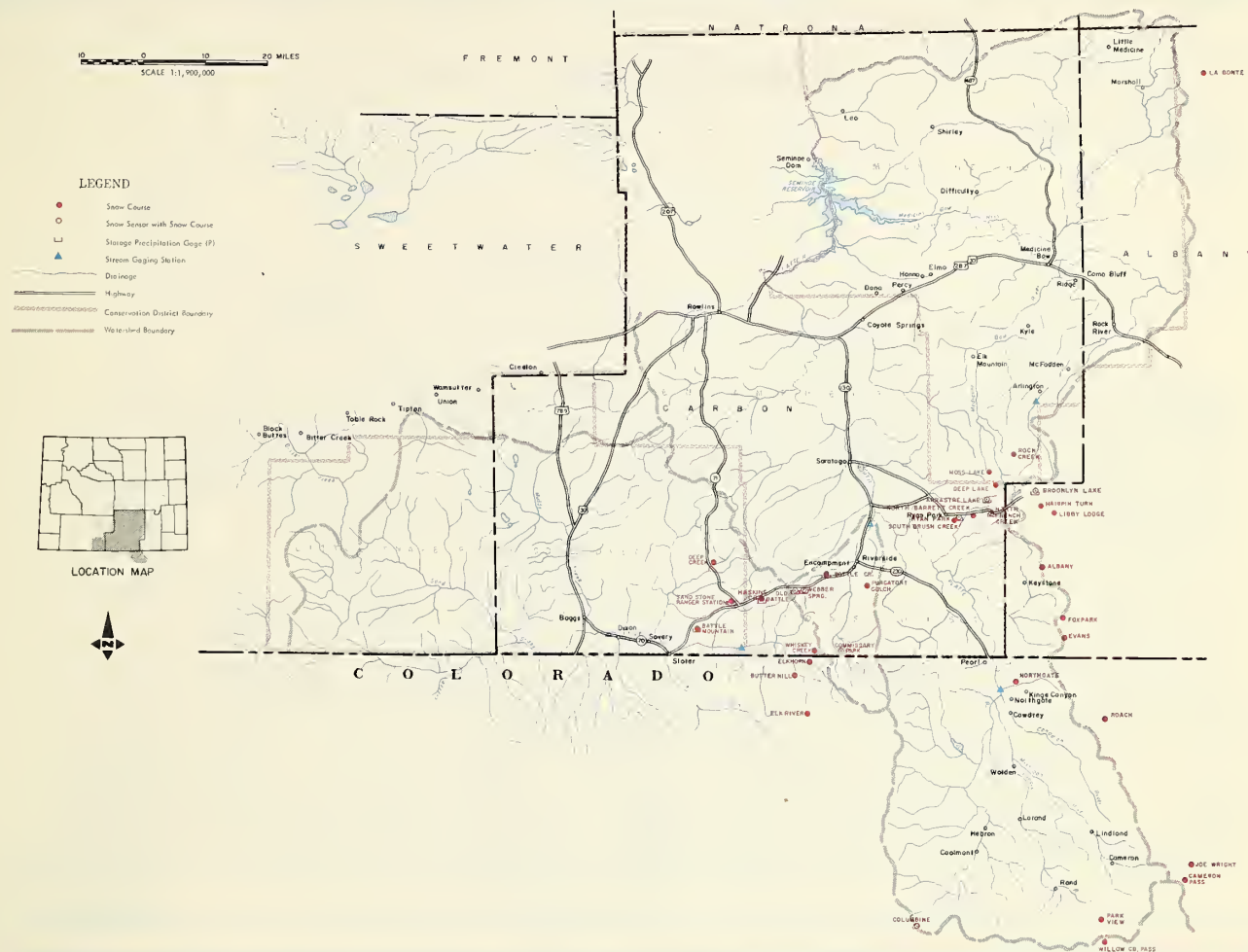


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"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE UPPER NORTH PLATTE AND LITTLE SNAKE RIVER BASINS IN WYOMING as of MARCH 1, 1977

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
NATIONAL CENTER, WASHINGTON, D. C. 20250



YOUR WATER SUPPLY

FAR BELOW NORMAL SPRING AND SUMMER STREAMFLOWS ARE FORECAST (35-44%). LESS THAN HALF OF NORMAL SNOWFALLS (SOME BELOW RECORDED LOWS) HAVE ACCUMULATED BY MARCH 1. LOW FALL PRECIPITATION AND DRY SOILS HAVE ALSO REDUCED THE SUMMER WATER SUPPLY. SEMINOE RESERVOIR STORAGE REMAINS WELL ABOVE AVERAGE.

This report prepared by

JAMES HAGLUND, JON WERNER and MARILYN STARKS
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UPPER NORTH PLATTE RIVER AND LITTLE SNAKE RIVER BASINS

STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year **	Average †
BASIN, STREAM and/or FORECAST POINT					
North Platte River near Northgate	95	40	Apr-Sept	163	240
North Platte River near Sinclair	260	40	Apr-Sept	544	648
Encampment River near Encampment	50	35	Apr-Sept	142	141
Rock Creek near Arlington	24	44	Apr-Sept	50	55
Little Snake near Dixon	115	38	Apr-Sept	254	301
Little Snake near Slater, Colo.	51	35	Apr-Sept	-	145

** Measured flow for last year are U.S. Geological Survey provisional figures subject to revision.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Upper North Platte	16	44	46
Encampment River	4	28	34
Brush Creek	3	57	62
Medicine Bow River and Rock Creek	4	45	45
Little Snake River	2	35	37

RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Seminole	1010.5	487.7	566.1	333.8

+ 1958-1972 period.

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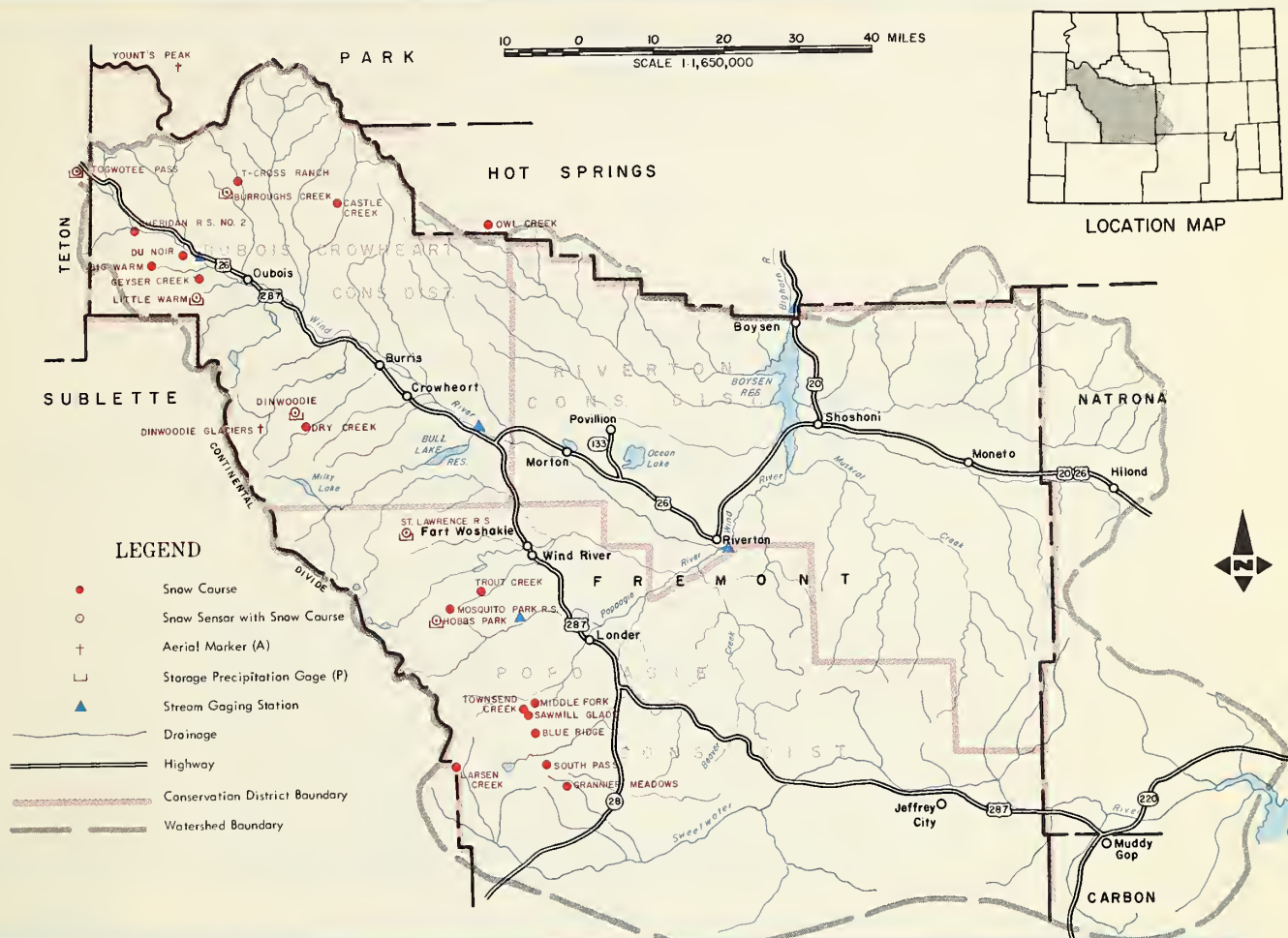
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"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE WIND RIVER BASIN AND SWEETWATER RIVER WATERSHED IN WYOMING

as of MARCH 1, 1977

U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE



YOUR WATER SUPPLY

MARCH 1 MOUNTAIN WATER SUPPLIES ARE EXPECTED TO PROVIDE ABOUT 50% OF THE USUAL VOLUMES OF STREAMFLOW ON THE WIND RIVER. BULL LAKE CREEK AND LITTLE POPO AGIE RIVER ARE FORECAST ABOUT 60% OF NORMAL. SNOWPACKS ARE AS LOW AS 28% OF NORMAL. BOYSEN RESERVOIR STORAGE REMAINS ABOVE NORMAL WHILE PILOT BUTTE AND BULL LAKE HAVE LESS THAN THE AVERAGE MARCH 1 SUPPLY.

This report prepared by
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WIND RIVER BASIN AND SWEETWATER RIVER WATERSHED

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year **	Average †
Wind River near Dubois	51	50	Apr-Sept	146	102
Wind River at Riverton (1)	340	51	Apr-Sept	736	664
Wind River below Boysen (2)	500	50	Apr-Sept	1100	1006
Bull Lake Creek near Lenore (3)	120	66	Apr-Sept	178	182
Little Popo Agie near Lander	29	60	Apr-Sept	40	48

(1) Observed flow plus change in storage in Bull Lake and Pilot Butte Reservoirs and diversion to Wyoming Canal.

(2) Observed flow plus change in storage in Bull Lake, Pilot Butte and Boysen Reservoirs; plus diversion to Wyoming Canal minus return flow from Fivemile and Muddy Creeks.

(3) Observed flow plus change in storage in Bull Lake

** Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Wind River	9	22	28
Popo Agie	5	38	37
Sweetwater	3	30	34

RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Bull Lake	151.8	53.6	67.7	79.3
Pilot Butte	31.6	8.1	19.8	16.4
Boysen	549.9	295.3	259.0	262.0

† 1958-1972 period.

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WATER SUPPLY OUTLOOK

FOR THE CONSERVATION DISTRICTS IN THE UPPER GREEN RIVER BASIN IN WYOMING

MARCH 1, 1977
as of

U.S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
SALT LAKE CITY, UTAH



YOUR WATER SUPPLY

FORECASTS OF 54% (GREEN RIVER AT WARREN BRIDGE) TO 32% (FLAMING GORGE INFLOW) INDICATE A LOW TO POOR SUMMER RUNOFF. THE FEBRUARY SNOWFALL HAS DONE LITTLE TO IMPROVE THE SHORT SUPPLY. RESERVOIR STORAGE IS ABOUT NORMAL FOR MARCH 1.

This report prepared by

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UPPER GREEN RIVER BASIN IN WYOMING

STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year **	Average †
Green River at Warren Bridge	175	54	Apr-Sept	347	327
Green River near LaBarge	355	38	Apr-Sept	1124	931
Green River near Green River (1)	370	37	Apr-Sept	1222	989
Flaming Gorge Inflow	375	32	Apr-July	1329	1174
LaBarge Creek at LaBarge Meadows	3.1	34	Apr-Sept	9.5	9.0
Big Sandy River near Big Sandy	20	35	Apr-Sept	62	57

(1) Observed flow plus change in storage in Fontenelle Reservoir.

** Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Upper Green, East Side	7	23	24
Upper Green, West Side	7	27	27
Big Sandy	2	28	31

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Eden	11.8	6.2	3.3	2.6*
Big Sandy	38.3	19.6	24.8	15.2
Fontenelle	344.8	188.4	216.6	-
Flaming Gorge	3749.0	2934.0	3303.3	1588.0

*Less than 15 years

† 1958-1972 period.

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POTENTIAL SUMMER WATER SUPPLIES FOR THE LOWER GREEN AND BEAR RIVER WATERSHEDS ARE POOR. LESS THAN 30% OF THE AVERAGE MARCH 1 SNOWPACK HAS ACCUMULATED THROUGHOUT THE SOUTHWEST CORNER OF THE STATE. LESS THAN HALF OF THE NORMAL STREAMFLOW VOLUMES CAN BE EXPECTED THIS SUMMER. STORAGE IS CURRENTLY AVERAGE AT VIVA NAUGHTON RESERVOIR.

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U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

CASPER, WYOMING KEMMERER, WYOMING

LOWER GREEN RIVER AND BEAR RIVER WATERSHEDS

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year **	Average †
LaBarge Creek at LaBarge Meadows	3.1	34	Apr-Sept	9.5	9.0
Green River near Green River (1)	370	37	Apr-Sept	1222	989
Hams Fork below Pole Creek, near Frontier	20	29	Apr-July	74	66
Blacks Fork near Millburne	43	46	Apr-July	71	94
Flaming Gorge Inflow	375	32	Apr-July	1329	1174
Smiths Fork near Border	35	30	Apr-Sept	135	116
Thomas Fork near State Line	6	19	Apr-Sept	40	32
Bear River at Utah-Wyoming State Line	40	36	Apr-July	-	112

(1) Observed flow plus change in storage in Fontenelle Reservoir.

** Measured flow for last year are U.S. Geological Survey provisional figures subject to revision.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Bear River	4	33	26
Thomas and Smiths Fork	4	27	26
Blacks Fork	3	18	17
Henry's Fork	2	20	19

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Fontenelle	344.8	188.4	216.6	-
Flaming Gorge	3749.0	2934.0	3303.3	1588.0
Viva Naughton	42.4	30.1	-	29.8*

*Average for period of record.

+ 1958-1972 period.

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BASIC DATA SUPPLEMENT 1

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave.†

<u>YELLOWSTONE RIVER BASIN</u>					
<u>MADISON RIVER</u>					
Norris Basin	2/27	21	4.0	12.5	9.9
Old Faithful	2/24	16	4.0	20.3	-
Twenty-One Mile	2/25	22	5.0	20.3	16.1
West Yellowstone	2/25	17	3.2	17.0	10.6
<u>UPPER YELLOWSTONE</u>					
Canyon	3/01	27	5.7	18.6	13.9
Crevice Mountain	2/28	33	6.8	11.9	9.2
Lake Camp	3/01	17	2.8	11.3	8.2
Lupine Creek	2/28	16	2.8	12.9	9.8
Northeast Entrance	3/02	24	5.0	12.8	8.4
Parkers Peak (A)	2/25	57	12.5	37.0	-
Thumb Divide	2/28	21	3.5	18.8	19.0
Two Ocean Plateau (A)	2/25	36	8.3	47.3	-
<u>CLARKS FORK</u>					
Cooke Station	3/01	38	8.8	21.9	17.6
Fisher Creek	3/01	58	17.2	39.3	32.6
Fisher Creek Pillow	3/01	-	17.0	36.5	30.5
White Mill	3/01	42	10.4	30.4	24.1
White Mill Pillow	3/01	-	11.0	26.0	-
Wolverine	2/28	19	4.0	N.R.	-
<u>WIND RIVER</u>					
Big Warm Spring	2/24	4	0.6	6.7	6.0 b
Blue Ridge	2/23	13	4.3	10.0	10.0
Burroughs Creek	2/25	12	2.5	17.4	11.9
Burroughs Creek Pillow	2/25	-	3.6	-	-
Castle Creek	2/25	6	1.0	5.8	-
Dinwoody	2/24	8	1.6	N.R.	10.2 b
DuNoir	2/24	8	1.3	6.6	6.8
Geyser Creek	2/25	0	0.0	8.0	6.1
Hobbs Park	2/24	15	3.3	10.6	11.1 b
Little Warm	2/24	20	3.7	15.4	13.8
Middle Fork	2/23	14	3.6	5.6	-
Sawmill Glade	2/23	12	3.9	6.4	6.9
Sheridan R.S.	2/24	9	1.6	9.7	6.8 b
South Pass	2/23	18	3.9	12.4	12.3
St. Lawrence R.S.	2/24	8	1.5	5.2	5.6 b
T-Cross Ranch	2/25	0.5	0.1	9.2	5.7
Togwotee Pass	3/02	46	11.1	32.0	25.4
Togwotee Pass Pillow	3/02	-	8.7	-	-
Townsend Creek	2/23	17	3.6	6.1	-
<u>BIGHORN RIVER</u>					
Bald Mountain	2/24	72	19.8	20.4	19.1
Bald Mountain Pillow	2/24	-	17.5	-	-
Bear Trap (A)	3/01	30	6.3	10.1	7.9 a
Beaver Tongue Divide	2/24	62	17.2	18.4	17.9 c
Bone Spring Divide	2/23	48	13.2	16.2	15.8
Carter Mountain	2/25	7	1.4	5.2	3.6
Cold Springs Camp	2/26	27	5.6	9.8	8.8 c
East Entrance	2/27	16	3.4	14.5	9.1
Five Springs Falls	2/28	31	8.3	6.0	7.4
Granite Pass	2/22	38	10.6	14.4	14.2
Marquette Creek	2/25	13	2.6	6.8	-
Medicine Lodge Lakes	2/27	26	5.9	10.1	10.4 c
Medicine Wheel	2/24	66	17.8	15.6	15.2
Middle Powder	2/27	46	10.7	9.3	9.8 a
Middle Powder Pillow	2/27	-	11.4	-	-

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave.†

<u>BIGHORN RIVER (Cont'd)</u>					
Munkres Pass	2/27	23	4.8	10.0	8.1 c
Onion Gulch	2/27	27	5.3	9.4	8.0 c
Owl Creek	2/26	17	1.7	3.1	4.6 c
Ranger Creek	2/27	28	5.8	10.0	8.9 c
Shell Creek	2/27	39	7.8	11.5	13.3
Shell Creek Pillow	2/27	-	8.7	-	-
Sylvan Pass	2/27	20	5.2	18.0	11.9 b
Sylvan Lake Pillow	2/27	-	8.6	-	-
Timber Creek	2/26	2	0.2	2.5	2.7 c
Tyrell R.S.	2/27	23	4.7	10.0	7.7 c
West Tensleep Lake	2/27	27	6.2	12.0	10.7 c
Younts Peak (A)	2/25	45	10.8	28.4	-
<u>TONGUE RIVER</u>					
Big Goose	2/23	25	4.9	6.8	6.4
Burgess R.S.	2/24	37	8.4	7.9	7.3
Burgess R.S. Pillow	2/24	-	10.4	-	-
Dome Lake	2/23	28	6.0	9.4	8.4 b
Dome Lake Pillow	2/23	-	6.3	-	-
Geneva Pass (A)	3/01	48	10.1	18.5	15.1 a
North Tongue	2/24	41	10.8	12.8	11.2 c
Sawmill Divide	2/23	45	9.6	12.3	-
Sibley Lake	2/22	41	11.2	10.2	10.1
Steamboat Point	2/22	27	7.4	7.6	7.4
Sucker Creek	2/22	39	10.4	10.8	12.0
Sucker Creek Pillow	2/22	-	12.4	-	-
Wood Rock G.S.	2/23	34	7.6	9.8	9.3
<u>POWDER RIVER</u>					
Cloud Peak (A)	3/01	33	6.9	12.2	10.2 a
Muddy Creek G.S.	2/26	1	0.1	3.9	3.2 c
Powder River Pass	2/26	32	6.4	12.0	-
Powder River Pass Pillow	2/26	-	7.2	-	-
Soldier Park	2/26	10	2.0	6.4	4.9
Sour Dough	2/26	11	1.8	7.2	5.7
<u>PLATTE RIVER BASIN</u>					
<u>NORTH PLATTE</u>					
Albany	2/28	24	5.6	12.8	13.7 c
Arrastre Lake Pillow	2/24	-	10.8	23.7	-
Bottle Creek	2/25	19	3.9	15.8	11.5 c
Boxelder	2/27	24	5.1	7.2	5.9
Brooklyn Lake	2/28	34	6.8	19.3	19.1
Brooklyn Lake Pillow	2/28	-	7.8	-	-
Buck Creek	2/28	34	5.8	10.9	-
Cameron Pass	2/25	39	10.9	22.6	22.5
Casper Mountain	2/28	39	9.7	12.0	11.3
Casper Mountain Pillow	2/28	-	8.0	14.1	-
Chambers Lake	2/25	8	1.0	8.7	8.1
Columbine	2/28	53	10.9	17.8	20.4
Deadman Hill	2/24	21	3.9	11.1	14.1
Deep Lake	2/23	65	16.4	35.2	-
Evans	2/25	22	4.1	10.4	9.6 a
Foxpark	3/01	13	3.2	4.3	6.4
Grannier Meadows	2/23	18	5.0	13.0	11.8
Joe Wright	2/25	50	11.6	18.7	21.1 a
Hairpin Turn	2/28	25	5.3	15.0	13.5 c
LaBonte	2/25	16	3.7	7.6	4.3
Larsen Creek	2/24	16	3.0	14.4	11.7 b
Libby Lodge	2/28	19	3.1	10.8	9.9 c
Lost Lake	2/28	18	3.0	10.0	10.2
Moss Lake	2/23	44	9.0	22.0	-

BASIC DATA SUPPLEMENT 1

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont (In.)	Water Content (inches)	
				Last Yr.	Ave†

NORTH PLATTE (Cont'd)

North Barrett Creek	2/24	58	11.1	17.5	17.8 c
North French Creek	2/24	65	15.0	29.0	24.2 c
North French Creek Pillow	2/24	-	10.8	21.4	-
Northgate	2/25	13	2.1	4.7	5.5
Old Battle	2/25	37	8.6	31.2	27.6 c
Park View	2/24	16	2.5	7.8	7.8
Pole Mountain	3/01	13	3.0	7.8	4.7
Purgatory Gulch	2/25	15	3.1	10.9	-
Rabbit Ears	2/28	47	9.5	16.8	21.8
Roach	2/25	31	6.5	17.1	14.9 a
Rock Creek	2/23	56	11.7	23.9	22.4
Ryan Park	2/25	32	6.0	10.1	10.1 c
South Brush Creek Pillow	2/24	-	8.7	10.5	-
Webber Spring	2/25	29	6.6	20.4	17.3 c
Webber Spring Pillow	2/25	-	5.8	-	-
Willow Creek Pass	2/28	21	3.8	10.3	10.4

GREEN RIVER BASIN

GREEN RIVER

(Above Green River)

Big Sandy Opening	2/24	20	4.0	13.6	12.5 b
Blind Bull Summit (A)	- Delayed	-	-	23.7	24.4 a
East Rim Divide	2/28	18	3.6	13.4	11.6 c
Elkhart Park	2/24	21	4.4	13.2	12.8 b
Gros Ventre Summit	2/26	16	2.5	12.1	11.5 c
Gros Ventre Pillow	2/26	-	2.9	-	-
Kendall R.S.	2/26	13	2.4	12.9	11.5 c
Loomis Park	2/28	22	4.6	17.3	16.4 c
New Fork Lake	2/26	16	2.6	11.1	10.7 a
Piney LaBarge	2/25	28	6.4	20.0	20.9 c
Pocket Creek	- No Report	-	-	12.8	11.3 b
Poison Meadows	2/25	37	8.1	26.2	26.2
Rowdy Creek	2/24	27	5.6	22.6	-
Snider Basin	2/25	19	3.6	15.6	14.8
Soda Lake	2/28	20	3.8	16.5	16.4
Spring Creek Divide Pillow	2/25	-	4.8	-	-
Triple Peaks	2/28	26	6.3	25.3	24.0

GREEN RIVER

(Below Green River)

Blacks Fork G.S.(East Fk.)	2/25	18	3.3	6.5	7.6 a
Blacks Fork Junction	2/25	16	2.4	6.7	7.7 a
Hewinta R.S.	2/25	16	2.4	6.4	7.4 a
Hickerson Park	2/25	11	1.7	6.1	5.1 a
Spirit Lake	2/25	17	3.4	10.1	10.0 a
Steel Creek Park	- No Report	-	-	13.0	12.7

LITTLE SNAKE RIVER

Battle Mountain	2/28	24	4.1	7.7	-
Butter Hill	3/01	31	5.1	13.0	-
Deep Creek	2/28	29	5.3	13.4	-
Elkhorn	3/01	51	10.0	20.6	-
Elk River	2/28	45	7.4	14.7	15.9
Haskins Creek	2/24	54	8.9	23.7	-
Sandstone R.S.	2/28	36	5.9	10.8	-
Whiskey Creek	3/01	52	11.1	23.1	-

SNAKE RIVER BASIN

SNAKE RIVER

Afton R.S.	2/28	5	0.8	5.0	4.2
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SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont (In.)	Water Content (inches)	
				Last Yr.	Ave†

SNAKE RIVER (Cont'd)

Arizona	3/01	24	4.3	21.9	16.5
Aster Creek	2/28	28	5.2	30.0	26.6
Base Camp	3/01	26	5.3	22.5	17.8
Blackrock	3/02	38	8.1	23.6	18.6
Bryan Flat	2/24	11	2.0	9.6	8.7
CCC Camp	2/25	19	3.3	10.9	11.1
Cottonwood Lake (A)	- Delayed	-	-	19.2	17.2 a
Coulter Creek	3/01	33	6.8	29.3	19.7
Darby Canyon	2/28	35	5.8	26.2	-
Elbo Ranch	- Delayed	-	-	-	-
Four Mile Meadows	3/02	26	4.6	13.6	11.6
Freds Mountain	2/28	39	6.8	28.7	-
Glade Creek	2/28	34	7.3	27.5	19.0
Grassy Lake	2/28	50	12.4	40.4	30.1
Greys Boundary	2/25	20	3.5	12.8	10.4
Grover Park Divide	2/25	17	3.6	11.6	11.3
Huckleberry Divide	3/01	31	6.2	24.1	18.8 b
Indian Meadows	2/28	45	9.9	41.7	-
Jackpine Creek	2/28	29	6.0	27.0	-
Lewis Lake Divide	2/28	45	9.4	45.5	35.9
Miles Creek	2/28	23	4.8	15.3	-
Moran	3/01	23	4.1	15.3	11.9
Moran Bay	3/01	32	6.9	26.9	19.2 c
Phillips Bench	2/25	39	9.5	28.6	-
Phillips Bench Pillow	2/25	-	6.9	-	-
Pitchstone Plateau (A)	2/25	56	12.9	72.1	-
Salt River Summit	2/25	23	4.2	15.0	14.6
Salt River Summit Pillow	2/25	-	4.0	13.3	-
Snake River Station	2/28	31	6.3	23.9	18.3
Snow King Mountain	2/24	19	3.3	16.8	13.3 a
State Line	2/28	19	2.6	18.1	12.8
Teton Pass W.S.	2/25	31	6.9	27.8	-
Turpin Meadows	3/02	23	4.1	13.6	9.6
Youngs Ranch (A)	- Delayed	-	-	16.8	-

BEAR RIVER BASIN

Big Park	2/24	24	4.8	16.9	18.2 c
Burts-Miller Ranch	2/25	8	1.2	4.4	5.9
Hayden Fork	2/25	26	5.0	12.3	16.2
Kelley R.S.	2/24	23	4.2	16.1	16.6 b
Kelley R.S. Pillow	2/24	-	2.5	-	-
Monte Cristo	2/25	28	4.9	18.4	21.9
South Thomas Fork	2/25	16	3.2	13.5	-
Stillwater Camp	2/25	18	3.1	7.6	11.3
Trial Lake	2/28	28	5.1	18.6	21.8

CHEYENNE RIVER BASIN

CHEYENNE RIVER

Bearlodge Divide	2/24	18	4.2	2.4	3.4 a
Mallo Pillow	3/01	35	10.2	-	-
Mount Tom Pillow	2/28	32	7.7	-	-
Reuter Canyon	2/24	46	11.8	8.9	8.8 a
Sweetwater Mountain Pillow	2/27	-	7.1	-	-
Upper Spearfish	2/28	40	8.8	6.9	6.5
Warren Peak	2/25	40	10.8	7.4	9.3 a

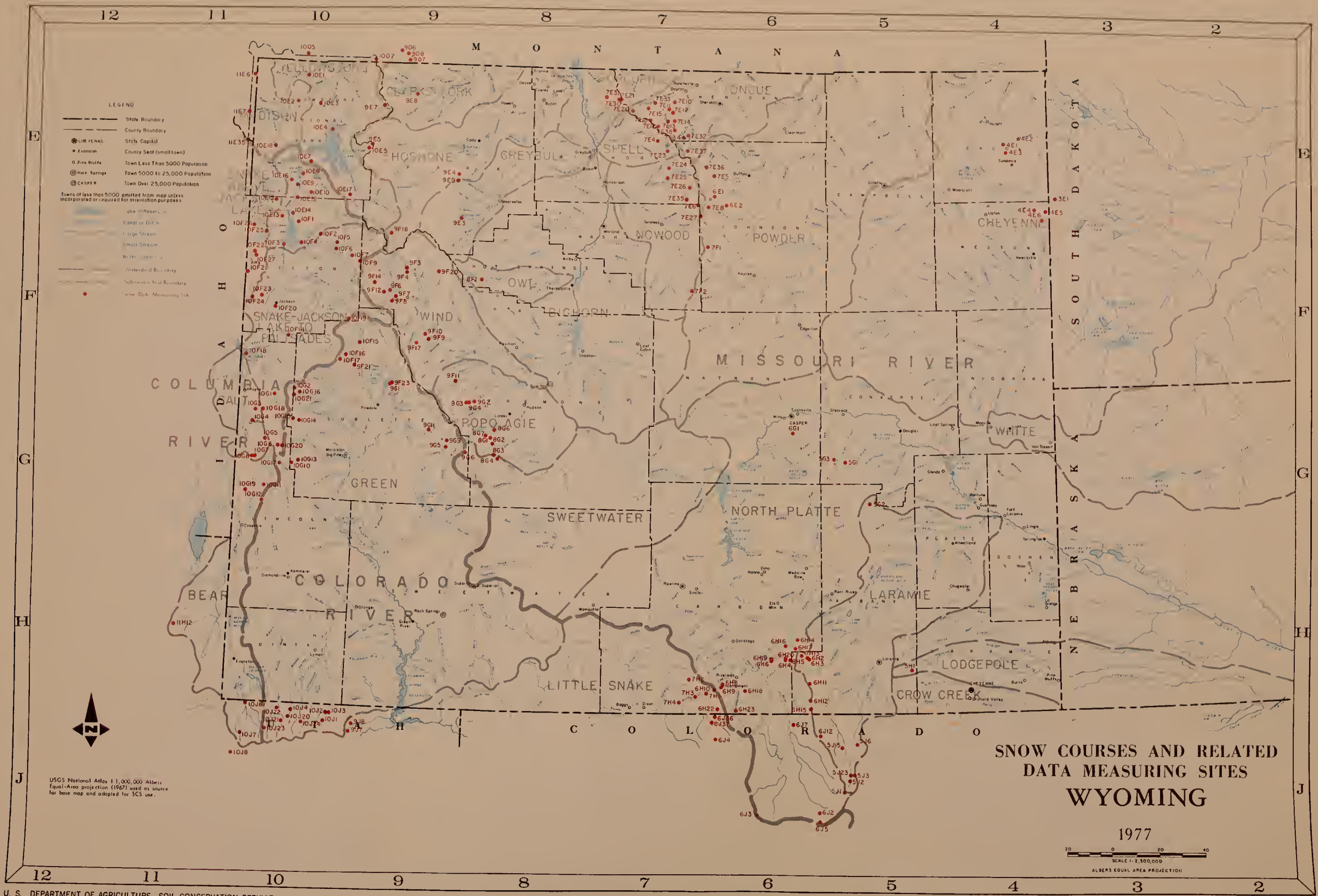
a Less than 15 years
b 1958-72 adjusted average
c Partly estimated
A Aerial stadia marker;
water content estimated

BASIC DATA SUPPLEMENT 2

PRECIPITATION (Inches) FOR MONTH OF FEBRUARY

PRECIPITATION (Inches)		FOR MONTH OF FEBRUARY		CURRENT INFORMATION		PAST RECORD	
DRAINAGE BASIN and PRECIPITATION GAGE LOCATION		ELEVATION	Date of Reading	Precipitation	Last Year	Average †	
UPPER YELLOWSTONE							
Lake Camp	7780	2/28	0.16	0.73	1.60		
LOWER YELLOWSTONE							
Bald Mountain	9375	2/24	2.87	1.50			
Burgess R.S.	7880	2/24	2.25	-			
Burroughs Creek	8750	2/25	0.44	-			
Carter Mountain	7950	2/25	0.10	0.65			
Dome Lake	8850	2/23	1.00	1.40			
Granite Pass	9100	2/22	0.92	0.97			
Louis Lake	8500	- No Report	-	5.00			
Middle Powder	7800	2/27	3.75	1.50			
Onion Gulch	8780	2/27	0.95	1.30			
Powder River Pass	9475	2/26	1.00	1.90			
Sylvan Lake	8420	2/27	1.13	-			
Timber Creek	7950	2/26	0.30	0.63			
Togwotee Pass	9600	3/02	1.60	4.85			
NORTH PLATTE							
Arrastre Lake	10275	2/24	2.50	9.50			
Brooklyn Lake	10220	2/28	2.88	2.79			
Casper Mountain	7850	2/28	2.50	1.97			
North French Creek	10130	2/24	2.30	2.37			
Old Battle	9900	2/25	2.40	-			
Pole Mountain	8360	3/01	0.10	4.80			
Rock Creek	10100	2/23	1.56	3.60			
South Brush Creek	8440	2/24	1.50	1.80			
Webber Spring	9240	2/25	1.75	6.10			
GREEN RIVER							
Battle Mountain	7440	2/28	1.50	1.20			
Big Sandy Opening	9100	- No Report	-	3.13			
East Rim Divide	7950	2/28	0.50	2.00			
Elkhart Park G.S.	9400	- No Report	-	2.80			
Gros Ventre	8775	2/26	0.37	-			
Haskins Creek	8800	2/24	2.25	2.93			
Sandstone R.S.	8140	2/28	1.97	-			
Snider Basin	8060	2/25	0.55	2.75			
Spring Creek Divide	9000	2/25	1.31	-			
SNAKE RIVER							
Grassy Lake	7265	2/28	2.05	5.25			
Grover Park Divide	7000	2/25	0.60	3.70			
Lewis Lake Divide	7860	2/28	2.20	6.50			
Moran (NWS)	6500	3/01	0.55	3.62			
Salt River Summit	7600	2/25	0.75	3.57			
Snake River Station (NWS)	6920	2/28	0.97	4.51			
BEAR RIVER							
Kelley R.S.	8180	2/24	0.38	3.30			
BELLE FOURCHE							
Bearlodge Divide	4680	2/28	1.03	0.90			
Sweetwater Mountain	5860	2/27	0.62	-			
Warren Peak	6520	2/25	0.60	1.01			
(NWS) National Weather Service gage							





LEGEND

- State Boundary
- County Boundary
- State Capital
- County Seat (small town)
- Population
- Population 5,000 to 25,000
- Population Over 25,000
- Towns of less than 5,000 omitted from map unless incorporated or required for orientation purposes
- Reservoir
- Canal or Ditch
- Large Stream
- Small Stream
- Water Boundary
- Subsidence Boundary
- Low Data Measuring Site

SNOW COURSES AND RELATED
DATA MEASURING SITES
WYOMING

1977

20 0 20 40
SCALE 1:2,500,000
ALBERS EQUAL AREA PROJECTION

INDEX TO WYOMING SNOW COURSES

DRAINAGE BASIN AND COURSE NAME	WYOMING NUMBER	ELEV.	LOCATION			RECORD BEGAN	MEAS. DATES	MEAS. BY
			SEC. LAT.	TWP., RANGE LONG.				
MISSOURI RIVER DRAINAGE								
Madison River								
Black Bear m	11E35	7950	27	15S	5E	1972	1,2,3,4,5,6	1,4
Norris Basin	10E2	7500	44°45'		110°42'	1936	1,2,3,4,5	2
Old Faithful	10E18	7400	44°27'		110°49'	1975	1,2,3,4,5	2
21 Mile m	11E6	7150	1	11S	5E	1937	1,2,3,4,5	7
West Yellowstone m	11E7	6700	34	13S	5E	1934	1,2,3,4,5	7
Yellowstone								
Canyon	10E3*	7940	44°44'		110°30'	1938	1,2,3,4,5	1
Crevica Mountain m	10D5	8400	22	9S	9E	1935	3,4	4
East Entrance	9E5	6960	44°29'		110°00'	1948	1,2,3,4,5	2
Lake Camp	10E4P	7780	44°33'		110°24'	1937	1,2,3,4,5	1
Lupine Creek	10E1	7380	44°55'		110°37'	1938	1,2,3,4,5	2
Northeast Entrance m	1007P	7400	33	9S	14E	1937	1,2,3,4,5	2
Parker's Peak	9E7A	9400	44°44'		109°55'	1965	2,3,4	1
Pitchstone Plateau	10E16A	8520	44°14'		110°44'	1965	2,3,4	1
Thumb Divide	10E7	7980	44°22'		110°34'	1946	2,3,4	5
Two Ocean Plateau	10E17A	9160	44°09'		110°12'	1965	2,3,4	1
Sylvan Pass	10E5*	7100	44°29'		110°02'	1936	1,2,3,4,5	2
Clark's Fork								
Cooke Station m	907	8150	19	9S	15E	1966	1,2,3,4,5,6	1,2
Fisher Creek m	9D6	8199	11	9S	14E	1966	1,2,3,4,5,6	1,2
Parker's Peak	9E7A	9400	44°04'		109°55'	1965	2,3,4	1
White Hill m	908	8700	18	9S	15E	1967	1,2,3,4,5,6	1,2
Wolverine	9E8	7650	44°48'		109°39'	1970	2,3,4,5	1
Wind River								
Big Warm	9F12	8370	29	42N	108W	1955	2,3,4,5	1
Burroughs Creek	9F4*	8750	43°41'		109°40'	1948	2,3,4,5	1
Castle Creek	9F20	8400	19	43N	104W	1975	2,3,4,5	1
Olinwoody	9P10*	10160	33	38N	105W	1948	2,3,4,5	1
Dry Creek	9F9	9620	35	4N	6W	1948	2,3,4,5	1
Onoir	9F6	8760	27	42N	108W	1940	2,3,4,5	1
Ceymar Creek	9F7	8500	6	41N	107W	1948	2,3,4,5	1
Little Warm	9P8*	9620	24	41N	108W	1948	2,3,4,5	1
Shoridan R.S.	9F14	7720	3	42N	109W	1955	2,3,4,5	1
T-Cross Ranch	9F3	8000	1	43N	107W	1940	2,3,4,5	1
Togwotee Pass	10F9*	9580	28	44N	110W	1936	1,2,3,4,5	5
Popo Agie River								
Blue Ridge	8G2	9620	23	31N	101W	1939	2,3,4,5	1
Hobbs Park	9C3*	10100	22	2S	3W	1948	2,3,4,5	1
Middle Fork	8G6	7420	24	32N	101W	1968	2,3,4,5	1
Mosquito Park R.S.	9C4	9500	23	2S	3W	1940	2,3,4,5	1
Sawmill Glade	8G1	8740	3	31N	101W	1939	2,3,4,5	1
South Pass	8G3	9040	13	30N	101W	1939	2,3,4,5	1
St. Lawrence R.S.	9P11*	8960	26	1N	4W	1940	2,3,4,5	1
Townsend Creek	8G7	8700	42°41'		108°33'	1974	2,3,4,5	1
Trout Creek	9C2	8210	7	2S	2W	1948	2,3,4,5	1
Owl Creek								
Owl Creek	8F1	8975	29	43N	101W	1948	2,3,4,5	1
Greybull River								
Timber Creek	9E3P	7950	23	47N	103W	1955	2,3,4,5	1
Shoshone River								
Gartar Mountain	9E4P	7950	10	50N	103W	1957	2,3,4,5	1
East Entrance	9E5	6960	44°29'		110°00'	1948	1,2,3,4,5	2
Marquette Creek	9E9	8760	16	50N	103W	1975	2,3,4,5	1
Sylvan Pass	10E5*	7100	44°29'		110°02'	1937	1,2,3,4,5	2
Yount's Peak	9F18A	8350	43°56'		109°49'	1960	2,3,4	1
Nowood Creek								
Bear Trap	7F1A	7900	3	45N	85W	1960	2,3,4	1
Gold Springs Camp	7E25	8620	2	50N	88W	1956	2,3,4,5	1
Medicine Lodge Lakes	7E24	9340	13	51N	88W	1956	2,3,4,5	1
Middle Powder	7F2	7760	9	42N	86W	1960	2,3,4,5	1
Munkra Pass	7E8	9400	10	48N	85W	1950	2,3,4,5	1
Onion Gulch	7E27P	8780	31	48N	85W	1956	2,3,4,5	1
Powder River Pass	7E6*	9480	6	48N	85W	1967	2,3,4,5	1
Tyrell R.S.	7E35	8350	30	49N	86W	1936	2,3,4,5	1
West Tensleep Lake	7E26	9100	33	50N	86W	1956	2,3,4,5	1
Shell Creek								
Bald Mountain	7E21*	9380	29	56N	91W	1956	2,3,4,5	6
Beaver-Tongue Divide	7E20	9620	18	55N	90W	1956	2,3,4,5	6
Bona Spring Divide	7E18	9350	44°40'		107°34'	1956	2,3,4,5	6
Granita Pass	7E17P	9100	19	54N	88W	1956	2,3,4,5	6
Ranger Creek	7E4	8120	30	53N	88W	1936	2,3,4,5	1
Shell Creek	7E23*	9580	44°30'		107°26'	1956	2,3,4,5	1
Porcupine Creek								
Five Springs Falls	7E31	7620	20	56N	92W	1956	2,3,4,5	1
Medicina Wheel	7E30	8960	19	56N	91W	1956	2,3,4,5	6
Tongue River								
Beaver-Tongue Divide	7E20	9620	18	55N	90W	1956	2,3,4,5	6
Big Goose	7E32	7760	4	53N	86W	1955	2,3,4,5	6
Bona Spring Divide	7E18	9350	44°40'		107°34'	1956	2,3,4,5	6
Burgess R.S.	7E33*	7880	36	56N	89W	1950	2,3,4,5	6
Doma Lake	7E34*	8870	44°35'		107°18'	1940	2,3,4,5	6
Genava Pass	7E37A	9400	44°29'		107°17'	1961	2,3,4,5	1
Gloom Creek	7E14	9260	44°41'		107°22'	1956	2,3,4,5	6
Granite Pass	7E17P	9100	19	54N	88W	1956	2,3,4,5	6
North Tongue	7E15	8450	8	55N	89W	1960	2,3,4,5	6
Sawmill Divide	7E38	9260	44°38'		107°23'	1975	2,3,4,5	6
Sibley Lake	7E11	7920	44°46'		107°26'	1956	2,3,4,5	6
Steamboat Point	7E10	7560	29	56N	87W	1956	2,3,4,5	6
Sucker Creek	7E12*	8880	44°44'		107°24'	1956	2,3,4,5	6
Wood Rock G.S.	7E13	8440	44°41'		107°27'	1956	2,3,4,5	6

DRAINAGE BASIN AND COURSE NAME	WYOMING NUMBER	ELEV.	SEC. LAT.	LOCATION		RANGE LONG.	RECORD BEGAN	MEAS. ^a DATES	MEAS. ^b BY
				TWP.					
MISSOURI RIVER DRAINAGE (cont.)									
Powder River									
Bear Trap	7F1A	7900	3		45N	85W	1960	2,3,4	1
Clouda Peak	7E36A	9850	44°24'			107°05'	1960	2,3,4	1
Middle Powder	7F2*	7760	9		42N	86W	1960	2,3,4,5	1
Muddy Creek G.S.	6E2	7820	1		48N	84W	1956	2,3,4,5	1
Munkraa Pass	7E8	9400	10		48N	85W	1950	2,3,4,5	1
Onion Gulch	7E27P	8780	31		48N	85W	1956	2,3,4,5	1
Powder River Pass	7E6*	9480	6		48N	85W	1967	2,3,4,5	1
Soldier Park	7E5	8780	44°21'			107°02'	1950	2,3,4,5	1
Sour Oough	6E1	8460	44°13'			107°00'	1936	2,3,4,5	1
Sweetwater									
Cranniar Meadows	8G4	8860	19		30N	100W	1937	2,3,4,5	1
Larsen Creek	9C6	9020	42°36'			109°05'	1949	2,3,4,5	1
South Pass	8G3	9040	13		30N	101W	1940	2,3,4,5	1
Laramie River									
Brooklyn Lake	6N13*	10220	14		16N	79W	1936	2,3,4,5	1
Cameron Pass c	5J1	10285	2		6N	76W	1936	2,3,4,5	1
Qadman Mill c	5J6*	10200	26		10N	75W	1937	2,3,4,5	1
Evans	6N15	9080	4		12N	78W	1960	2,3,4,5	1
Foxpark	6N12	9060	21		13N	78W	1936	2,3,4,5	1
Mairpin Turn	6N2	9460	19		16N	78W	1936	2,3,4,5	1
Libby Lodge	6N3	8750	29		16N	78W	1936	2,3,4,5	1
Lost Lake c	5J23	9300	32		8N	75W	1951	2,3,4,5	1
McIntyre c	5J15	9100	35		10N	76W	1949	4,5	1
Pola Mountain	5N1P	8360	23		15N	71W	1936	2,3,4,5	1
Roach c	6J12	9800	15		11N	78W	1940	2,3,4,5	1
Crow Creek									
Pola Mountain	5N1P	8360	23		15N	71W	1936	2,3,4,5	1
North Platte									
Albany	6N11	9120	17		14N	78W	1949	2,3,4,5	1
Arrastra Lake	6H21*	10280	9		16N	80W	1971	2,3,4,5	1,6
Big South c	5J3	8600	33		8N	75W	1936	2,3,4,5	1
Bottle Creek	6N8	8700	13		14N	85W	1936	2,3,4,5	1,6
Boxalder	5G1	7280	19		30N	75W	1950	2,3,4,5	1
Buck Creek	5C3	7900	8		30N	76W	1972	2,3,4,5	1
Cameron Pass c	5J1	10285	2		6N	76W	1936	2,3,4,5	1
Casper Mountain	6C1*	7850	21		32N	79W	1954	1,2,3,4,5	1
Chambers Lake c	5J2P	9000	6		7N	75W	1936	2,3,4,5	1
Columbine c	6J3*	9300	21		5N	82W	1936	2,3,4,5	1
Osap Lake	6N17	10500	32		17N	79W	1965	2,3,4,5	1,6
Elk River c	6J4P	8700	6		10N	85W	1936	2,3,4,5	1
Foxpark	6H12	9060	21		13N	78W	1936	2,3,4,5	1
Joa Wright c	5J37*	10000	35		7N	76W	1967	2,3,4,5	1
LaBonta	5C2	7750	24		27N	74W	1949	2,3,4,5	1
LaPrele	5J4*	8375	42°26'			105°52'	1975	0nly 1	
Moss Lake	6N16	9880	27		17N	80W	1964	2,3,4,5	1,6
North Barratt Creek	6N5	9430	25		16N	80W	1936	2,3,4,5	1,6
North French Creek	6N4	10180	27		16N	80W	1938	2,3,4,5	1,6
North French Creek	6H20*	10125	27		16N	80W	1971	2,3,4,5	1,6
Northgate c	6J7	8500	7		11N	79W	1950	2,3,4,5	1
Old Battle	6H10*	9920	29		14N	85W	1936	2,3,4,5	1,6
Park View c	6J2	9200	24		5N	78W	1936	2,3,4,5	1
Purgatory Gulch	6N18	8970	41°08'			106°44'	1966	2,3,4,5	1,6
Rock Creek	6H14P	9980	9		17N	79W	1960	2,3,4,5	1,6
Ryan Park	6N6	8350	28		16N	81W	1936	2,3,4,5	1,6
South Struah Creek	6N19*	8440	28		16N	81W	1971	2,3,4,5	1,6
Wabbar Spring	6H9*	9250	23		14N	85W	1936	2,3,4,5	1,6
Willow Craek Pass c	6J5 ^a	9500	1		4N	78W	1938	2,3,4,5	1
Cheyenne River									
Bear Lodga Oivide	4E2P	4680	20		53N	62W	1963	2,3,4,5	1,4
Hallo	4E5	6420	28		48N	60W	1976	2,3,4,5	1
Mount Tom	4E4	5560	8		48N	62W	1976	2,3,4,5	1
Reutar Canyon	4E3	6280	33		51N	63W	1964	2,3,4,5	1,4
Sweetwater Mountain	4E6P	5860	16		47N	61W	1976	2,3,4,5	1
Upper Spearfish sd	3E1	6500	21		3N	1E	1944	2,3,4	4
Warren Peak	4E1P	6520	20		52N	63W	1963	2,3,4,5	1,4
COLORADO RIVER DRAINAGE									
Green River above Green River									
Big Sandy Opening	9C9*	9080	21		31N	104W	1961	2,3,4,5	1
Blind Bull Summit	10G2*	8650	42°57'			110°36'	1948	2,3,4	1
Outch Joa R.S.	9C5	8550	33		31N	104W	1936	2,3,4,5	1
East Rim Oivide	10F17P	7930	32		37N	111W	1936	2,3,4,5	1
Elk Heart Park G.S.	9F23P	9400	43°00'			109°45'	1961	2,3,4,5	1
Gros Ventr	10F19*	8750	35		40N	111W	1948	2,3,4,5	1
Kandall R.S.	10F15	7740	23		38N	110W	1936	2,3,4,5	1
LaBarge G.S.	10G17	9000	42°32'			110°40'	1967	2,3,4,5	1
Loomis Park	10F16	8240	14		37N	111W	1936	2,3,4,5	1
Mulligan Park	9C1	8810	17		35N	108W	1936	2,3,4,5	1
New Fork Lake	9F21	8340	11		36N	110W	1961	2,3,4,5	1
North Horsa Craek	10G16	8200	42°56'			110°32'	1961	2,3,4,5	1
Pinay LaBarge	10G10	8750	19		29N	115W	1936	2,3,4,5	1
Pockat Craek	9C11	9350	42°42'			109°25'	1961	2,3,4,5	1
Poison Maadows	10G6	8500	42°33'			110°41'	1948	2,3,4,5	1
Rowdy Craek	10G21	8300	42°56'			110°32'	1974	2,3,4,5	1
Snidar Basin R.S.	10G13P	8060	15		29N	115W	1936	2,3,4,5	1
Soda Lake	10G14	8400	42°45'			110°32'	1955	2,3,4,5	1
Sprng Craek Oivide	10G20*	9000	42°32'			110°40'	1974	2,3,4,5	1
Tripla Peaks	10G15	8500	42°46'			110°35'	1956	2,3,4,5	1
Green River below Green River									
Big Park	10G11	8620	7		27N	117W	1951	2,3,4,5	1
Black's Fk. Junc. u	10J22	8950	33		3N	12E	1961	3,4,5,6	1
Buck Pastura u	10J23A	9700	14		1N	11E	1963	4,5	1
East Fk Blucks Fk G.S. u	10J21	9300	25		2N	12E	1961	3,4,5,6	1
Elk River c	6J4P	8700	6		10N	85W	1936	2,3,4,5	1
Hyden Fork u	10J7	9400	25		1N	9E	1951	4,5	1
Henry's Fork u	10J24A	10000	29		2N	14E	1963	4,5	1

Agencies Cooperating in Wyoming Snow Surveys

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Soil Conservation Service

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NOAA, National Weather Service

U.S. Department of Interior
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